



**METHOD OF DETERMINING THE MASS (WEIGHT)
OF DITCH AND SLOPE PROTECTION MATS
(GENERAL REWRITE)**

SCOPE

This method of test is intended to determine the mass (weight) in kilograms per square meter (pounds per square yard) of ditch and slope protection mat in the field. This determination would normally be a responsibility of District Materials.

PROCEDURE

A. Apparatus

1. Balance - Minimum capacity 50 kg (100 lbs.) accuracy 0.25 kg (0.5 lbs.)
2. Tape measure

B. Sample Procedure

1. Secure a full roll sample that has not been unrolled or damaged at the project site. Do not remove the protective covering.
2. If large quantities of wood excelsior mat are being used, more full roll samples should be taken and the results averaged.

C. Test Procedure

1. Carefully place the full roll sample with the protective covering on the balance and weigh to the nearest 0.25 kg (0.5 lb.)
2. Remove protective covering and check the length and width of the mat with a tape measure to make sure the sample roll meets the minimum dimensional tolerances. The minimum width is 1.19 m (47 inches) and the minimum length is 24.4 m (80 feet).
3. Repeat procedure for additional samples.

D. Calculations

$$S = \frac{M}{A}$$

Where: A = Area of roll in square meters (square yards)
 M = Mass (weight) of full roll of wood excelsior mat in kilograms (pounds)
 S = Mass (weight) in kilograms per square meter (pounds per square yd)

E. Report

Report mass in kilograms per square meter (pounds per square yard) of the mat.